# premio

## INDUSTRIAL TOUCH SCREEN COMPUTER
# SIO-W215-J1900

### 15.6" Stainless Steel Panel PC with Intel® Celeron® J1900

## Features
- 15.6" Full HD 16:9 LCD with resistive 5-wire / projected capacitive touch
- Intel® Celeron® processor J1900, 2.0 GHz
- 1x 204-pin DDR3L SODIMM. max up to 8GB
- 1x mSATA
- M12 2x LAN, 4x USB, 2x COM
- 1x Full-size Mini PCIe for expansion
- Support 110V to 240V AC power input
- Fanless Operation from -20°C to 55°C
- Full system IP66/IP69K with Stainless Steel SUS316 construction
- Scratch-resistant and Wear-resistant 7H Tempered Glass
- Optical Bonding for ultimate clarity
- Pressure Valve SUS316 VENT

FC CE

## Specifications

### Display

| | |
|---|---|
| IP Rating | IP66/IP69K |
| LCD Size | 15.6" (16:9) |
| Max. Resolution | 1920 x 1080 (FHD) |
| Brightness (cd/m²) | 450 |
| Contrast Ratio | 800:1 |
| LCD Color | 16.2M |
| Pixel Pitch (mm) | 0.17925 (H) x 0.17925 (V) |
| Surface hardness | >3H |
| Response time | 13ms |
| Viewing Angle | 85 /85 /85 /85 (Typ.) (CR>=10) |
| Backlight MTBF | 60000 hrs (LED Backlight) |
| Operating Temperature | -30°C to 85°C |
| Storage Temp. | -40°C to 90°C |

### Touch

| | |
|---|---|
| Surface hardness | Resistive 5-wire >3H<br>Projected Capacitive 7H |
| Touch points | Resistive Single point<br>Projected Capacitive 2 point |
| Impact absorption | Projected Capacitive IK07 |

### System

| | |
|---|---|
| Processor | Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz |
| System Chipset | SoC Integrated |
| LAN Chipset | GbE1: Intel® I210-IT (Support Wake-on-LAN and PXE)<br>GbE2: Intel® I210-IT (Support Wake-on-LAN and PXE) |
| Audio Codec | Realtek ALC886 |
| System Memory | 1x 204-pin DDR3L SODIMM. max up to 8GB |

### Storage

| | |
|---|---|
| mSATA | 1x mSATA |
| SIM Socket | 1x Internal SIM socket |

### Expansion

| | |
|---|---|
| Mini PCIe | 1x Full-size Mini PCIe |

### I/O

| | |
|---|---|
| COM | 2x RS-232/422/485 by M12 A-Code 8-pin |
| LAN | 2x LAN by M12 X-Code 8-pin |
| USB | 4x USB 2.0 by M12 A-code 8-pin |
| Others | 2x WiFi Antenna (Optional)<br>Power On/Off, Reset<br>IP68/IP69K SUS 316 Vent |

### Operating System

| | |
|---|---|
| Windows | Windows 10, Windows 7, WES7 |
| Linux | Linux kernel 5.X |

### Power

| | |
|---|---|
| Power Mode | ATX |
| Power Supply Voltage | 110 ~ 240V AC Input |
| Power Connector | M12 S-code 4-pin |

### Environment

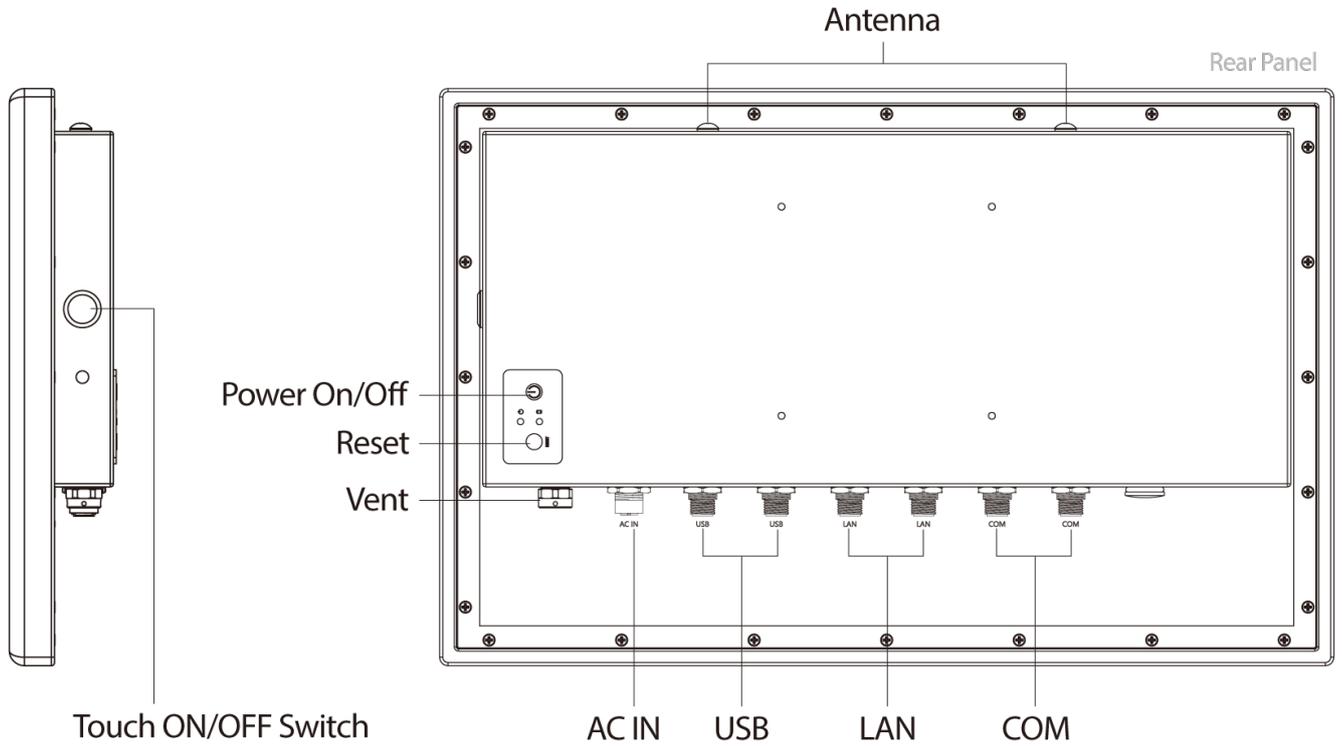| | |
|---|---|
| Operating Temperature | -20°C to 55°C<br>optional wide Temp. -20°C to 60°C |
| Storage Temperature | -20°C to 70°C |
| Relative Humidity | 10% ~ 80% (non-condensing) |
| IP Level | Full System IP66/IP69K |
| Certification | CE, FCC Class A |

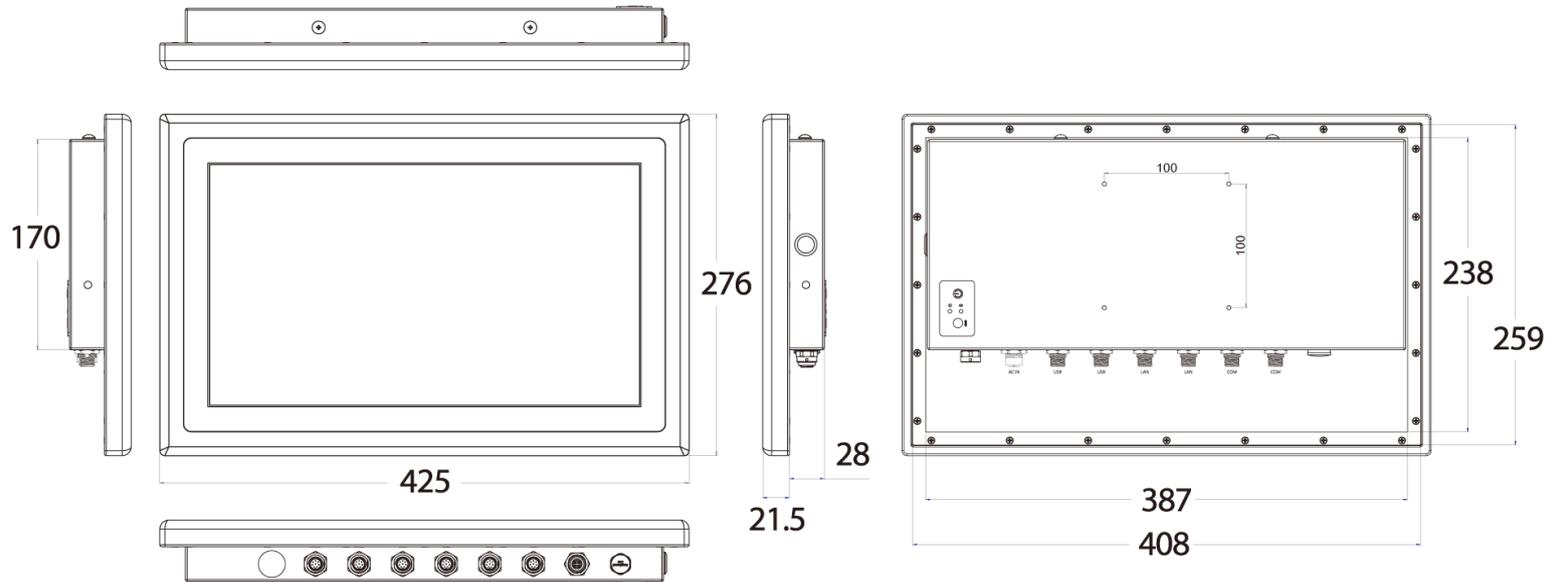| | |
|---|---|
| Vibration | With SSD: 2.4 Grms, 5 - 500 Hz, 0.5 hr/axis<br>With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis |
| Shock | With SSD: 20G, half sine, 11ms |

### Physical

| | |
|---|---|
| Dimensions | 425 (W) x 276(H) x 49.5 (D) mm |
| Weights | 7.39 kg |
| Construction | Stainless Steel SUS316 with Optical bonding |
| Mounting Options | VESA Mounting Holes 100 x 100mm<br>Optional Yoke Mount, Panel Mount |

*All specifications and photos are subject to change without notice.

**External I/O Mechanical Layout**

Antenna

Rear Panel

Power On/Off

Reset

Vent

Touch ON/OFF Switch

AC IN    USB    LAN    COM

AC IN    USB    USB    LAN    LAN    COM    COM

**Dimension**

Unit: mm

170

276

425

28

21.5

100

100

238

259

387

408

## Available Models

| Model No. | Description |
| --- | --- |
| SIO-W215C-J1900-P2 | 15.6" FHD Capacitive Touch Stainless Steel Panel PC with Celeron Processor J1900, AC IN, Optical bonding |
| SIO-W215R-J1900-P2 | 15.6" FHD Resistive Touch Stainless Steel Panel PC with Celeron Processor J1900, AC IN, Optical bonding |

## Optional Accessories

| Model No. | Description |
| --- | --- |
| 1-TPWR00092 | Waterproof M12 S-CODE 4P PWR Cable(SUS316L) Type_US L=3M |
| 1-TPWR00106 | Waterproof M12 S-CODE 4P PWR Cable(SUS316L) Type_EU L=3M |
| 1-TCOM00032 | Waterproof M12 A-CODE 8P COM Cable(SUS316L)_DB9 L=1.5M |
| 1-TLAN00024 | Waterproof M12 X-CODE 8P LAN Cable(SUS316L)_CAT 5E_RJ45 L=1.5M |
| 1-TUSB00057 | Waterproof M12 A-CODE 8P USB 2.0 Cable(SUS316L)_Type A*2 L=1.6M |
| SIO-CBL-BUNDLE-SUS316 | Bundle includes 1-TCOM00032, 1-TLAN00024, and 1-TUSB00057 |

## Packing List
• 1x SIO-W215-J1900
• 7x Waterproof Connector Cover Set

## Compliances and Standards

| | |
| --- | --- |
| Shock | With SSD: 20G, half sine, 11ms<br>IEC60068-2-27:2008<br>Designed to comply with MIL-STD-810G Method 516.7 Procedure I |
| Vibration | With SSD: 2.4 Grms, 5 - 500 Hz, 0.5 hr/axis<br><br>With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis<br>IEC60068-2-64:2008<br>Designed to comply with MIL-STD-810G Method 514.7 Procedure I |
| Operating Temperature | -30°C to 85°C<br>IEC60068-2-1:2007 (Cold test procedure)<br>IEC60068-2-2:2007 (Dry heat test procedure)<br>IEC60068-2-3:2007 (Damp heat, steady state, test procedure)<br>IEC60068-2-14:2009 (Wide temperature range thermal shock) |
| EMI | • FCC Class A (47 CFR part 15.109 and part 15.107)<br>• CE<br>• ICES-003<br>• UKCA |

## Exports And Tariff Codes

| | |
| --- | --- |
| ECCN | EAR99 |
| HTS | 8528.59.1500 |
| ScheduleB | 85.28 |